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TITLE: PRESSURE SWING METHOD FOR SEPARATING  
AND RECOVERING VOLATILE ORGANIC MATTER  
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ABSTRACT:

PURPOSE: To efficiently separate and recover volatile org. matter by passing a gas contg. volatile org. matter through an adsorbent under specified pressure to adsorb the org. matter and desorbing the adsorbed org. matter under the reduced pressure of  $\leq 1/10$  of the adsorption pressure.

CONSTITUTION: The gas contg. volatile org. matter such as halogenated org. matter, e.g., fluorocarbons and trichloroethane, is passed down through the adsorbent bed of  $\gamma$ -alumina, activated carbon, high-silica zeolite, silica fine particles, silica gel, etc. under the adsorption pressure 1 - 2 atm, to adsorb the volatile org. matter in the adsorbent. The adsorbed volatile org. matter is then desorbed under the reduced pressure of  $\leq 1/10$  of the adsorption pressure, and the volatile matter is contracted, concentrated and recovered. The contracted and concentrated volatile gaseous org. matter is compressed, liquefied and concentrated.

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